

1 slightly less than the average contribution of \$11.83 received
2 from residence services, and \$21.38 from business services.
3 The price is also in the lower portion of the range of rates
4 shown in the illustrative tariffs.

5 Q. Does this rate level comply with the Department's goals
6 and pricing policies?

7 A. Yes. The rate is based upon the marginal cost of the
8 link and considers both the illustrative tariffs levels of
9 contribution as well as the contribution from similar
10 offerings. In fact, the rate levels produce less contribution
11 than the prices of some other cross elastic services.

12 Q. Does the contribution level you describe prevent the CLEC
13 from entering the market?

14 A. No. The CLEC has many options for competing. The CLEC
15 can build facilities rather than utilizing NYNEX's facilities.
16 The CLEC will only have incentives to use NYNEX facilities
17 when they can take advantage of NYNEX's average price to avoid
18 building in more costly situations. When the economics favor
19 building a facility, the CLECs have incentives to choose that
20 alternative. The CLEC's will also provide value added
21 ancillary offerings to their customers and receive
22 contribution from those offerings as NYNEX does. They can
23 package a number of offerings provided by their own facilities
24 or provided through the resale of other carrier's services.
25 Not only can these packages include all offerings currently
26 offered by NYNEX, but also offerings that NYNEX is still

1 prohibited from providing, such as interLATA toll, interstate
2 toll and international toll. They will also receive
3 contribution in the form of access charges from other carriers
4 who use their network and they can recover contribution from
5 usage charges between subscribers on their own networks.
6 Finally, they have the opportunity to profit through
7 innovation and more efficient operations.

8 Q. What are the consequences of pricing the link without
9 sufficient contribution?

10 A. If links are priced without sufficient contribution,
11 CLECs are given uneconomic incentives to enter the market, and
12 discouraged from provisioning their own facilities if they can
13 do so more efficiently than NYNEX. They will be given
14 incentives to subscribe to links priced at artificially low
15 levels and arbitrage NYNEX's retail tariff.

16 Q. You've described a proposed price that addresses
17 situations in which carriers desire to purchase month to month
18 offerings. Some may argue that there should be wholesale
19 discounts for links. How would the Company respond?

20 A. There may be requests for volume and long term discounts
21 that would warrant future consideration. If requested, the
22 Company would make an assessment, and if feasible, could come
23 forward with a proposal that would reflect any appropriate cost
24 factors. The interconnection month-to-month charges described
25 in this testimony already account for any cost savings on a
26 statewide average basis and therefore, should not be

1 discounted further.

2 I would also note that the expected behavior of CLECs may
3 cause the development of segmented marginal costs and charges
4 which consider the difference in contribution required from
5 dial-tone lines in end offices like Martha's Vineyard, where
6 the costs to provide facilities are higher, versus end offices
7 in a more densely populated part of the state such as Boston.
8 If the CLEC serves classes of customers in the same proportion
9 and geographic distribution as NYNEX, the average cost and
10 charge would be appropriate. In other cases, there may be a
11 need to develop a weighted charge based upon serving more or
12 less densely populated areas.

13 Q. Will there also be nonrecurring charges associated with
14 the provision of links?

15 A. The Company believes that the charges for the link should
16 recover not only the marginal costs but also the start-up
17 costs associated with the provision of links. Start-up costs,
18 including any additional costs of bill provisioning and
19 support systems, should be recovered in nonrecurring charges.
20 Since the new services desired by the new entrants may only be
21 needed for a limited period, the start-up costs should be
22 recovered through upfront charges.

23 If a requested offering is merely piece parts of
24 offerings NYNEX already provides, the recurring and
25 nonrecurring costs developed in MCS VI can be used. In some
26 instances, there may also be a cost to disaggregate a tariff

1 offering. These costs must be recovered as well by those
2 requesting the disaggregation and may need to be recovered as
3 one time charges.

4 Q. Please describe the mutual compensation arrangements for
5 interchange of traffic between a CLEC and NYNEX and the
6 appropriate pricing of the service.

7 A. As described by Mr. Calabro, compensation arrangements
8 between interconnecting carriers are the arrangements in which
9 one carrier compensates another for the use of the competing
10 carrier's network and facilities. These arrangements
11 presently exist for the origination and termination of toll
12 traffic of the interexchange carriers and are called switched
13 access. A new form of compensation is described in Mr.
14 Calabro's testimony for local calls originating on one network
15 and terminating in another. This new offering, which I will
16 refer to as local switched access, should be priced using the
17 Department's established pricing principles that I have
18 previously described.

19 Q. Please describe how the Company would develop charges for
20 local switched access.

21 A. The Company proposes that, for simplicity, these charges
22 use the existing access structure and rate elements, which are
23 Local Switching, Local Transport and Carrier Common Line. The
24 present switched access charges will apply when a customer
25 uses the switched network to complete a toll call or a call
26 beyond the local calling area. Local switched access will

1 apply for the completion of local calls and will be provided
 2 as Feature Group D, which is currently available to all
 3 customers.

4 Q. How should local switched access be priced?

5 A. Like other services, local switched access prices should
 6 consider marginal costs. The marginal costs for local
 7 switched access is displayed in Attachment 3 to my testimony.
 8 Local switched access costs are \$.005286 on average and can
 9 range from \$.002059 to \$.008574 depending upon the routing of
 10 the terminating call.

11 More importantly, local switched access should be priced
 12 in relation to the current local charges, or in other words by
 13 recognizing the appropriate retail and wholesale relationship
 14 or the cross elasticity of the offerings. Using the retail
 15 local usage charge as a starting point, the wholesale local
 16 price should be established by subtracting the marginal cost
 17 difference of the network components and any relevant retail
 18 overhead. The resultant average charge per terminating minute
 19 is:

20

21	Average Retail Local Usage Charge	\$.023071
22	Retail/Wholesale Differential	<u>\$.006259</u>
23	Average Local Switched Access Charge	\$.016812

24

25 The average charge exceeds marginal cost and provides the
 26 same level of contribution as the average local usage charge.

1 This charge is a statewide average charge and will need to be
2 disaggregated by LATA to produce rates. The calculations
3 supporting the average charge and the retail/wholesale
4 differential are displayed in Attachment 3.

5 Q. If these charges are reciprocal, could these charges be
6 established at marginal cost?

7 A. If a CLEC and NYNEX charge each other the same rate
8 elements for access charges and if the traffic between
9 networks is of equivalent volume, existing switched access or
10 local access terminating charges will cancel each other out.
11 However, in the switched access tariff, Feature Group D is
12 available to all customers. Therefore, the cross elasticity
13 of retail local charges must be considered when establishing
14 wholesale local charges.

15 Q. How is this proposal in keeping with the Department's
16 principles?

17 A. This proposal is in keeping with the Department's
18 findings in D.P.U. 89-300 regarding retail pricing for toll
19 service and wholesale pricing of switched access service as
20 previously described. The Department has recognized the need
21 to price services in relation to similar services to avoid
22 economic inefficiency or tariff arbitrage. In its Order, the
23 Department stated:

24 "The method used by NET to derive an appropriate
25 retail/wholesale difference ensures that the amount by
26 which toll and switched access services exceed their

1 marginal costs is linked, so that consumers receive the
2 same price signals about similar services with the same
3 underlying costs. (Order p. 217)

4 The Department reaffirmed that linkage in its Order in D.P.U.
5 94-50. (p. 248-249) The retail and wholesale relationship of
6 local charges is the same as that of retail toll and wholesale
7 switched access charges. The proposed methodology for pricing
8 of local access should recognize the linkage of the retail and
9 wholesale offerings to promote economic efficiency and avoid
10 tariff arbitrage.

11 Q. What are the consequences of not including contribution
12 in the local switched access charges?

13 A. Unless the cross elasticity of local switched access
14 charges and retail local charges is recognized, economically
15 efficient charges will not be achieved and customers will be
16 provided an uneconomic incentive to tariff shop. The
17 Department has repeatedly established charges to promote
18 economic efficiency and to avoid this type of incentive.

19 Q. Are there requests for arrangements other than local
20 switched access for which charges are needed?

21 A. Yes. There are other network components for which there
22 is demand and which NYNEX will make available to competing
23 local exchange carriers. The services are Directory
24 Assistance, Directory Listings, access to 911 and E911,
25 Signaling System 7 (SS7) and services which facilitate interim
26 number portability.

1 Q. How should access to these network components be priced?

2 A. To the extent that access arrangements are comparable to
3 existing tariff offerings, the tariffed charges should apply.

4 If the network component is different than the tariff
5 offerings, new charges will be required and cost savings, if
6 any, should be reflected in the charge. Conversely, if the
7 new offering causes the Company to incur additional costs,
8 charges should reflect the costs incurred to provide the
9 network components.

10 Q. Please describe how directory listings and Directory
11 Assistance Service should be priced.

12 A. The charges for Directory Listings Services will include
13 a one time charge to establish the listing and an annual
14 maintenance charge for directory listings. NYNEX will provide
15 a white and yellow page listing to the carrier, if desired,
16 and include normal directory delivery to the carrier's
17 subscribers.

18 For Directory Assistance, the existing access per call
19 tariff charge should apply for each Directory Assistance
20 inquiry. NYNEX would also charge the carrier for any branding
21 or carrier identification desired by the carrier as described
22 in Mr. Calabro's testimony. NYNEX will also offer call
23 completion for Directory Assistance inquiries. All of these
24 charges will recover the costs of the services provided.

25 Q. How does the Company propose to recover the costs for
26 access to 911 and E911 service?

1 A. NYNEX will provide 911 Service at existing tariffed
2 charges. For E911 service, NYNEX proposes to bill new
3 entrants a monthly prorated charge based upon NYNEX's E911
4 costs, as reported to the Department annually in April, and
5 each carrier's percent share of total telephone numbers in the
6 E911 database.

7 Currently NYNEX's costs for implementing E911 Service for
8 its customers are recovered through a directory assistance
9 charging plan. The prorated charge to CLECs for a portion of
10 E911 costs will offset the lost directory assistance revenue
11 resulting from the loss of customers to competing carrier
12 networks. The charging mechanism avoids having NYNEX's
13 remaining customers pay the total cost of providing E911
14 service for themselves and the competing carriers' customers.

15 Q. What charges will apply for access to SS7 facilities?

16 A. The Company is developing charges for access to SS7
17 interconnection in response to other customer requests.
18 Charges for this network component will be based upon the
19 framework established by the Department and described in this
20 testimony. The tariffs are expected to be filed within two
21 months. The Company proposes that the Department approve
22 these tariffs with the proviso that the tariff is potentially
23 subject to change resulting from an order in this proceeding.

24 Q. How does the Company propose to charge for interim number
25 portability?

26 A. The Company will file a tariff for this offering in

1 conjunction with the Order in this case. Consistent with
2 other offerings, the charges for number portability would be
3 established in accordance with the Department's framework.
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1 UNIVERSAL SERVICE FUNDING

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3 Q. What is universal service?

4 A. In its Order in D.P.U. 1731, the Department determined
5 that one of its major public policy goals was to ensure the
6 continued ability of the vast majority of the population in
7 Massachusetts to obtain basic telecommunications services.
8 This goal is referred to as universal service. From a
9 customer's perspective, universal service is the availability
10 of service at a reasonable price. This objective has been
11 achieved in Massachusetts. The Department has consistently
12 balanced its goal of achieving more economically efficient
13 pricing with its support for universal service. In D.P.U. 69-
14 300, target rates were established in recognition of the need
15 to preserve universal service and then throughout the
16 transition filings, rates were moved gradually toward target
17 levels. The present prices have levels of contribution which
18 are higher than they otherwise would be because the prices
19 were established to recognize this goal.

20 From a carrier's perspective, the goal of universal
21 service requires that it serve all customers in all geographic
22 areas regardless of the cost characteristics of providing
23 service. Moreover, it requires that the carrier price some
24 services, primarily residence exchange service, below an
25 economically efficient level to ensure affordable service.
26 The carrier's ability to meet its obligation is predicated on

1 its ability to recoup its costs through a pattern of prices
2 that contain varied levels of contribution. NYNEX's existing
3 rates reflect a pattern of pricing which was established with
4 varied levels of contribution to balance universal service
5 with other economic and public policy goals.

6 Q. Will the goal of universal service be jeopardized by the
7 entrance of local exchange competition?

8 A. No. As long as the Department continues the pattern of
9 pricing which recognizes the need for comparable levels of
10 contribution from cross elastic or substitutable services, the
11 goal of universal service is not jeopardized and there is no
12 need for a broad Universal Service Fund.

13 If the Department does not maintain appropriate levels of
14 contribution in NYNEX's offerings, a Universal Service Fund
15 would be required to support the low revenue producing, more
16 costly to serve customers. The size of the fund and the
17 eligible recipients could vary, and the Department would need
18 to determine which companies would contribute to the fund and
19 which firms would draw from the fund. A fund would be
20 difficult to design and would only be a substitute for an
21 appropriate level of contribution in interconnection charges.
22 The Company believes its proposal strikes a reasonable balance
23 and will permit the Company to fulfill its obligations without
24 requiring an administratively complex fund.

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1 RESALE OF NYNEX'S UNLIMITED SERVICES

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3 Q. In its Notice opening this investigation, the Department
4 directed parties to address the issue of the resale of NYNEX's
5 unlimited exchange services. Could you please comment on this
6 matter.

7 A. The resale of NYNEX's services is currently addressed in
8 its tariffs. All offerings in the Exchange and Access tariffs
9 are available for resale except for Unlimited Business
10 exchange service, which is only available in exchanges outside
11 of Metropolitan Boston, and Unlimited Flexpath¹ and Unlimited
12 Centrex service, which are also available only in certain
13 exchanges. Residence exchange service is generally not
14 available for resale because by definition, its use is for a
15 residence customer and not for business purposes. The only
16 exception to the Residence resale restriction is for
17 educational institutions that provide exchange services to
18 occupants of student housing. In this limited situation, the
19 Department allowed resale. (See Complaint of Massachusetts
20 Institute of Technology, D.P.U. 86-13)

21 Q. Does the Company believe that the present restrictions
22 are reasonable?

23 A. Yes. If resale of unlimited services were limited to
24 situations where the reseller becomes the interface or billing
25 agent for the ultimate consumer, the Company would not oppose
26 the resale of service, including any ancillary offerings, to

1 the reseller on behalf of a named end user. The reseller
2 would then simply resell the entire NYNEX unlimited package.

3 However, this is not the resale phenomenon that some
4 firms may contemplate for exchange services. The resale that
5 is occurring today for offerings that are subject to resale,
6 primarily usage, involves the aggregation of traffic of
7 multiple end users. In traffic aggregation resale, the
8 reseller gathers traffic using switched access and aggregates
9 traffic at its switch. The reseller takes advantage of volume
10 discounts by reconfiguring the delivery of traffic from
11 multiple end users to the NYNEX switch to appear as a high
12 volume user. If the reseller or carrier could subscribe to
13 unlimited offerings, the use of any measured offering could be
14 avoided.

15 The restriction is needed to promote economic efficiency.
16 Economic efficiency is promoted by prices based upon costs and
17 by price structures which encourage and enable customers to
18 change their consumption patterns. Typically carriers have
19 high volumes of usage and would be encouraged to select
20 unlimited business service to avoid local usage charges.
21 Unlike the measured structure, where customers pay for what
22 they use, unlimited business service would allow the carrier
23 to avoid paying for their greater than average usage. The
24 Company has previously advocated the grandfathering of
25 business unlimited service to avoid the uneconomic use of the
26 service by large users. Offering the service to carriers

1 exacerbates the problem. Certainly, the availability of the
2 service should not be expanded at this time.

3 Furthermore, carriers could combine unlimited exchange
4 service with private line offerings to effectively tariff
5 shop. This would have the effect of undercutting switched
6 access prices as well as retail toll charges. Using the
7 service to avoid toll and switched access charges will only
8 create an opportunity for tariff arbitrage and will not
9 promote economic efficiency. Rather than create this
10 uneconomic incentive, the unlimited business service should be
11 limited as it is today, to non-carriers.

12 The reselling of residence exchange service provides
13 similar uneconomic incentives. If unlimited services were
14 available for resale, the same uneconomic incentives would
15 encourage the carrier to subscribe to residence service and
16 take advantage of even lower usage charges and dial-tone line
17 charges than for business unlimited service. Even the resale
18 of residence measured service provides incentives to tariff
19 shop since the dial-tone line charges and usage charges are
20 lower than the current business local usage charges.

21 Q. Is there any way to allow the first type of resale you
22 describe to occur and avoid the aggregator's incentives?

23 A. The Company does not believe that it is practical to
24 allow resale of unlimited services at this time. There are
25 considerable difficulties associated with monitoring resale
26 on a one-for-one basis. For example, if a carrier subscribes

1 to three unlimited lines in a residential apartment complex,
2 the Company would not know if the service was being used for
3 one-to-one resale for three end users, or if the carrier were
4 aggregating traffic from many end users. Given the large
5 number of carriers in Massachusetts and the potential for
6 aggregation, monitoring carrier use of unlimited service would
7 be nearly impossible.

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1 SUMMARY

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3 Q. Please summarize your testimony.

4 A. My testimony describes a framework for pricing links and
5 other interconnection arrangements, and shows how the pricing
6 proposals relate to the Department's framework for the pricing
7 of services. The Company has proposed a framework for
8 establishing the prices of interconnection arrangements in
9 which the price would recover the marginal cost for the
10 offerings and promote economic efficiency. If this proposal
11 is approved and the Department continues its pricing policies
12 which ensure appropriate levels of contribution are recovered
13 from services, the Company believes there is no need for a
14 broad Universal Service Fund. I have also explained why the
15 resale of unlimited service should continue to be restricted.

16 Q. Does this conclude your testimony?

17 A. Yes.

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LINK SERVICE
MONTHLY RECURRING COST
MASSACHUSETTS

<u>DESCRIPTION</u>	<u>COST</u>	<u>SOURCE</u>
L1 Residential Loop	\$7.53	MCS I, DKT 86-33 BOOK 1, PART 3E1, PAGE 19
L2 Business Loop	\$5.37	MCS I, DKT 86-33 BOOK 1, PART 3E1, PAGE 19
L3 Cost of SMAS Test Access	\$2.31	Attached
L4 Total Marginal cost - Residence	\$9.84	L1 + L3
L5 Total Marginal cost - Business	\$7.68	L2 + L3

SWITCHED VOICE GRADE ANALOG LINK SERVICE
MASSACHUSETTS

MONTHLY RECURRING COST

SMAS

DESCRIPTION	PER UNIT	QTY	TOTAL	
L1. STAGE 1 CONTROLLER - SHELF	\$1,312.00	1/5	\$262.40	
L2. MAINT. CONN. CONTROLLER - SHELF	\$257.00	1	\$257.00	
L3. MAINT. CONN. - SHELF	\$250.00	10	\$2,500.00	
L4. TOTAL SHELF MATERIAL PRICE			\$3,019.40	L1+L2+L3
L5. HARDWARE INSTALLATION FACTOR			2.0000	
L6. TOTAL SHELF INSTALLED INVESTMENT			\$6,038.80	L4 x L5
L7. STAGE 1 CONTROLLER - CARD	\$680.00	1	\$680.00	
L8. MAINT. CONN. CONTROLLER - CARD	\$953.00	5	\$4,765.00	
L9. MAINT. CONN. - CARD	\$776.00	10	\$7,760.00	
L10. TOTAL CARD MATERIAL PRICE			\$13,205.00	L7+L8+L9
L11. PLUG-IN INSTALLATION FACTOR			2.0000	
L12. TOTAL CARD INSTALLED INVESTMENT			\$26,410.00	L10 x L11
L13. TOTAL SMAS INSTALLED INVESTMENT			\$32,448.80	L6 + L12
L14. CIRCUITS per ABOVE EQPT		250		
L15. TOTAL SMAS INSTALLED INVESTMENT per CKT			\$129.80	L13 / L14
L16. CAPITAL COST FACTOR			0.1980	
L17. ANNUAL CAPITAL COST			\$25.44	L15 x L16
L18. MAINTENANCE COST FACTOR			0.0179	
L19. ANNUAL MAINTENANCE COST			\$2.32	L15 x L18
L20. TOTAL SMAS EQPT - ANNUAL COST per CKT			\$27.76	L17 + L19
L21. TOTAL SMAS EQPT - MONTHLY COST per CKT			\$2.31	L20 / 12

REVENUE PER DIAL TONE LINE (DTL)

<u>LINE</u>	<u>DESCRIPTION</u>		<u>SOURCE</u>
1	RESIDENCE REVENUES	\$942,779,880	MA DPU 93-125 P. BROWN TESTIMONY ATT. J P. 4
2	RESIDENCE DTLs	30,054,724	MA DPU 93-125 P. BROWN TESTIMONY ATT. I P. 79
3	REVENUE PER DTL	\$31.37	L1 / L2

COST PER DTL

4	RESIDENCE CORE 3 MARGINAL COST (MC)	\$194,698,409	MA DPU 93-125 P. BROWN TESTIMONY ATT. I P. 79
5	RESIDENCE DTLs	30,054,724	MA DPU 93-125 P. BROWN TESTIMONY ATT. I P. 79
6	MC PER DTL	\$13.06	MA DPU 86-33 MARGINAL COST BOOK 2 OF 3 P. 47 OF 511
7	RESIDENCE DTL MC	\$392,514,695	L5 * L6
8	TOTAL RESIDENCE MC	\$587,213,104	L4 + L7
9	MC PER DTL	\$19.54	L8 / L5

CONTRIBUTION PER DTL

10	CONTRIBUTION PER DTL	\$11.83	L3 - L9
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REVENUE PER DIAL TONE LINE (DTL)

<u>LINE</u>	<u>DESCRIPTION</u>		<u>SOURCE</u>
1	BUSINESS REVENUES	\$552,427,333	MA DPU 93-125 P. BROWN TESTIMONY ATT. J P. 4
2	BUSINESS DTLs	13,134,211	MA DPU 93-125 P. BROWN TESTIMONY ATT. I P. 79
3	REVENUE PER DTL	\$42.06	L1 / L2

COST PER ACCESS LINE

4	BUSINESS CORE 3 MARGINAL COST (MC)	\$130,088,221	MA DPU 93-125 P. BROWN TESTIMONY ATT. I P. 79
5	BUSINESS DTLs	13,134,211	MA DPU 93-125 P. BROWN TESTIMONY ATT. I P. 79
6	MC PER DTL	\$10.78	MA DPU 86-33 MARGINAL COST BOOK 2 OF 3 P. 78 OF 511
7	BUSINESS DTL MC	\$141,586,795	L5 * L6
8	TOTAL BUSINESS MC	\$271,675,016	L4 + L7
9	MC PER DTL	\$20.68	L8 / L5

CONTRIBUTION PER DTL

10	CONTRIBUTION PER DTL	\$21.38	L3 - L9
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MASSACHUSETTS
RETAIL LOCAL USAGE REVENUE PER MINUTE
JUNE 1997 DATA

ATTACHMENT B3
PAGE 1 OF 3

BUSINESS		MESSAGES	CONVERSATION MINUTES	REVENUE	ADDM
EASTERN LATA					
MEASURED	ZONE 1	84,168,860	180,800,527	\$5,413,802.85	0.029977
	ZONE 2	18,387,882	41,464,078	\$2,771,781.17	0.088878
	TOTAL	100,536,342	222,064,605	\$8,185,083.82	0.036853
UNLIMITED W/ PCA	ZONE 1	27,047,154	45,532,726	\$4,402,439.00	0.096687
PBX UNLIM W/ PCA	ZONE 1	7,363,383	16,644,578	\$815,703.00	\$0.049007
CTX UNLIM W/ PCA	ZONE 1	2,312,988	5,820,202	\$174,950.00	\$0.030059
WESTERN LATA					
MEASURED		11,184,587	22,348,184	\$437,587.00	\$0.019580
UNLIMITED W/ PCA		3,388,038	6,384,215	\$481,709.00	\$0.075335
PBX UNLIM		1,184,850	3,123,118	\$138,710.04	\$0.044414
CTX UNLIM		195,530	482,014	\$14,772.00	\$0.030024
TOTAL WESTERN		15,943,003	32,358,531	\$1,072,778.04	\$0.033153
TOTAL EASTERN	ZONE 1	120,892,185	248,588,033	\$10,808,885	\$0.043471
	ZONE 2	18,387,882	41,464,078	\$2,771,781.17	0.088878
		137,259,867	290,052,111	\$13,578,175.82	0.046811
BUSINESS TOTAL	ZONE 1&2 &WESTERN	153,202,870	322,420,642	14,650,954	\$0.046440
RESIDENCE					
EASTERN LATA					
MEASURED	ZONE 1	7,537,218	23,888,009	\$454,321.21	\$0.019034
	ZONE 2	1,383,880	6,673,505	\$388,804.44	\$0.058199
	TOTAL	9,520,898	30,492,514	\$841,125.65	\$0.027686
UNLIMITED W/ PCA	ZONE 1	137,877,357	486,471,024	\$7,703,885.00	\$0.015517
QCDL W/ PCA					
CIRCLE CALLING	ZONE 1	8,526,748	29,856,382	\$345,314.00	\$0.011586
SUBURBAN SVC	ZONE 1	9,183,977	32,752,899	\$803,468.00	\$0.018425
METROPOLITAN SVC	ZONE 1	58,487,408	200,198,184	\$2,659,842.00	\$0.014285
BAY STATE MET	ZONE 1	35,324,887	111,918,728	\$1,408,368.00	\$0.012583
BAY STATE NON-MET	ZONE 1	28,894,772	87,477,242	\$1,338,788.00	\$0.013741
TOTAL		141,387,288	472,151,425	\$6,556,780.00	\$0.013887
QCDL - PREMIUM					
CIRCLE CALLING	ZONE 1	377,885	1,927,882	\$85,297.88	\$0.044248
	ZONE 2	108,528	543,889	\$24,058.32	\$0.044248
SUBURBAN	ZONE 1	2,308,047	12,278,307	\$318,182.08	\$0.042210
	ZONE 2	880,423	3,482,548	\$148,153.82	\$0.042210
METROPOLITAN	ZONE 1	17,584,083	74,811,888	\$3,340,158.90	\$0.044847
	ZONE 2	4,937,844	21,100,789	\$842,098.10	\$0.044847
BAYSTATE MET	ZONE 1	8,048,971	33,484,422	\$1,486,313.04	\$0.043531
	ZONE 2	2,772,905	8,435,883	\$410,754.88	\$0.043531
TOTAL		36,202,263	157,013,178	\$6,923,015.00	\$0.044892
WESTERN LATA					
MEASURED		407,432	1,245,818	\$20,198.00	\$0.016213
UNLIMITED		\$2,708,877	198,482,875	\$2,024,348.42	\$0.018198
WESTERN TOTAL		\$3,117,109	199,728,794	\$2,044,547.42	\$0.018237
EASTERN TOTAL	ZONE 1	315,038,836	1,114,981,737	\$20,114,888	\$0.018041
	ZONE 2	8,548,178	41,188,606	\$1,909,867.74	\$0.046384
		324,987,814	1,156,179,141	\$22,024,755.55	\$0.019050
RESIDENCE TOTAL	ZONE 1&2 &WESTERN	378,104,923	1,355,858,835	\$24,069,313	\$0.017752
RES/BUS COMBINED EASTERN		462,247,681	1,446,190,252	35,802,941	\$0.024618
RES/BUS COMBINED WESTERN		88,060,112	232,087,325	3,117,325	\$0.013432
RES/BUS COMBINED TOTAL		531,307,793	1,678,277,577	\$38,920,267	\$0.023871

CALCULATION OF DIFFERENTIAL BETWEEN RETAIL AND WHOLESALE LOCAL USAGE

In order to calculate the cost-based differential between retail and wholesale local usage, three items are critical: 1) The network cost associated with retail usage; 2) The network cost incurred when NYNEX terminates a local call which has been initiated by a local competitor; and 3) The contribution to common costs which is included in the retail rate. After these three items are determined, the differential is calculated by subtracting item 2 from item 1 and adding to that result item 3.

CONTRIBUTION TO RETAIL OVERHEAD

Item 3, the contribution to common costs relevant to local usage is equal to \$0.001731. This was calculated by dividing local retail overhead expenses from the COSS (Product Management, Sales, Advertising, Service Order Processing) by the total number minutes of use. This calculation is shown on Workpaper 1 of this attachment.

NYNEX'S INCREMENTAL COST PER LOCAL MINUTE OF USE

The costs associated with local usage are as follows:

	<u>Per Min</u>	<u>Per Msg</u>
Intraoffice:	\$0.002580	\$0.000007
Interoffice:	\$0.006585	\$0.000007

The development of these costs is displayed on Workpaper 2.

Utilizing the average intra/inter office distribution of 61% intraoffice and 39% interoffice, and an average length of call of 3.16 minutes/message, these numbers result in an average cost of \$0.004144 (The development of this average is displayed on Workpaper 3 of this attachment). However, using the same average length of call* (since this is a small portion of the cost), the actual cost range is:

Minimum:	Maximum:	Average:
\$0.002582	\$0.006587	\$0.004144

- * Inclusion of the per message charge adds \$0.000007/3.16, or \$0.000002, to the per minute network costs

COST OF TERMINATING A MINUTE OF USE ORIGINATED BY A LOCAL ACCESS USER

The costs associated with terminating local usage originated by a local access user are below:

	<u>Direct Per Min</u>	<u>Tandem Per Min</u>
Non-Collocated:	\$0.006164	\$0.008734
Collocated:	\$0.002059	\$0.006394

The development of these costs is shown on Workpaper 4 of this attachment. Based on the average switched access combination of 66% direct routing and 34% tandem, and assuming a 50/50 split between collocated and non-collocated arrangements, the average incremental cost to terminate calls originated by the customers of other local exchange carriers is \$0.005286. (This calculation is shown on Workpaper 5.) However, once again, these costs can be expressed as a minimum and a maximum:

Minimum:	Maximum:	Average:
\$0.002059	\$0.008734	\$0.005286

CALCULATION OF THE DIFFERENTIAL

The calculation of the differential, then, will vary with the definition of the incremental cost. Three possible calculations are shown below:

	<u>Using Min Costs:</u>	<u>Using Max Costs:</u>	<u>Using Avg Costs:</u>
1. NYNEX NETWORK COST	\$0.002582	\$0.006587	\$0.004144
2. WHOLESALE NETWORK COST	\$0.002059	\$0.008574	\$0.005286
3. RETAIL OVERHEAD	\$0.001731	\$0.001731	\$0.001731
DIFFERENTIAL: (1. - 2. + 3.)	\$0.002254	(\$0.000256)	\$0.000589

Although it seems to make the most sense to use the average values, this could invite debate about the average routing percentage and about the 50/50 split on collocated versus non-collocated arrangements. To avoid the debate, the Company proposes using the approach it used in DPU 89-300. This approach maximizes the differential by minimizing wholesale costs and maximizing retail costs. This results in a differential of:

1.	MAXIMUM NYNEX NETWORK COST	\$0.006587
2.	MINIMUM WHOLESALE NETWORK COST	\$0.002059
3.	RETAIL OVERHEAD	\$0.001731
	DIFFERENTIAL:	\$0.006259